

ortofon

accuracy in sound

MC High Output Series



Get more information about
Ortofon High Output cartridges



Ortofon A/S
Stavangervej 9
4900 Nakskov
Denmark
www.ortofon.com

Technical Data

MC-1 Turbo

MC-3 Turbo



3,3 mV

< 2 dB

> 22 dB

> 15 dB

20-25.000 Hz

+ 4 / - 1 dB

> 65 µm

13 µm/mN

Elliptical

r/R 8/18 µm

1,8-2,2 g (18-22 mN)

2 g (20 mN)

20*

100 Ohm

47 KOhm / < 500 pF

Norly

Black

4,1 g

3,3 mV

< 1,5 dB

> 24 dB

> 15 dB

20-30.000 Hz

+ 4 / - 1 dB

> 70 µm

13 µm/mN

Nude Fine Line

r/R 8/40 µm

1,8-2,2 g (18-22 mN)

2 g (20 mN)

20*

100 Ohm

47 KOhm / < 500 pF

Norly

Black

4,1 g

Output voltage at 1.000 Hz, 5 cm/sec.

Channel balance at 1 KHz

Channel separation at 1 KHz

Channel separation at 15 KHz

Frequency response at -3 dB

Frequency response 20-20.000 Hz

Tracking ability at 315 Hz, at recommended tracking force*)

Compliance, dynamic, lateral

Stylus type

Stylus tip radius

Tracking force range

Tracking force, recommended

Internal angle

Internal impedance, DC resistance

Recommended load impedance

Cartridge body material

Cartridge colour

Cartridge weight

*) Typical value

Thank you for choosing the Ortofon High Output moving coil cartridge for high performance sound reproduction of your favourite analogue records.

Ortofon High Output MC cartridges have sufficiently high output which eliminates the need for additional step-up devices without compromising the construction principles and unique sound quality of moving coil designs. Ortofon High Output Series cartridges offer you the opportunity to enjoy legendary pure Ortofon Moving Coil sound without the notorious disadvantages of costly extra step-up devices.

Please note

To avoid damages on the stylus or cantilever please keep the stylus guard on the cartridge any time when mounting or dismantling the unit.

Mounting the cartridge

Connecting

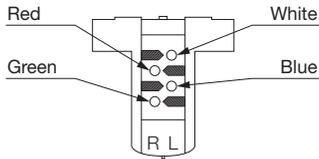
Please correlate the colour code for the terminals on the drawing with the colour codings on the cartridge.

The terminals for right and left channel have the same position as normal for Ortofon Moving Coil cartridges.

We recommend to mount the enclosed lead wires on cartridge and tonearm before aligning and calibrating the cartridge.

The length of the enclosed lead wires will fit a distance between cartridge and tonearm terminals of 35mm, which will work with most headshells.

Fig.1



Azimuth, vertical alignment

Azimuth adjustment or vertical alignment of the cartridge is very important for optimal channel separation.

The checking is easily done by lowering the cartridge onto a thin mirror placed on the record surface and examining whether the reflection lines up square with the cartridge, when viewed from the front. During this test tonearm must still be parallel to the record surface. If not obtainable because of mirror thickness, remove record and work directly on the mat. If alignment is still incorrect and not adjustable because of fixed headshell, the only solution is to resort to packing on one side of the head-shell.

Tonearm level, vertical tracking angle

Cartridges are constructed so that cantilever angle corresponds to the 20 deg. record cutting angle, when the cartridge is loaded with recommended tracking force and the cartridge base is parallel with the tonearm and this again is parallel to the record surface.

Connection to amplifier

The high output voltage of the High Output series cartridges is compatible with the normal MM phono input of any amplifier.

Antiskating

Set normal antiskating according to recommended tracking force.

Stylus Protection Guard

The stylus guard provided for High Output Series cartridges is designed to be easily replaced and removed. To avoid accidental damage to the stylus or cantilever please mount the enclosed stylus guard onto the cartridge whenever the cartridge is not in use. The stylus guard should also be attached during mounting or removal of the cartridge.

Stylus care

Ortofon does not recommend the use of solvents of any kind for cleaning of either the record surface or stylus. If necessary, records may be washed in lukewarm demineralized water with a dash of sulphonic soap. Remove dust carefully from record surfaces by using a fine antistatic brush or cloth before every use. The use of solvents on the stylus and cantilever may damage stylus cement; interior parts of the cartridge can be affected seriously by the intrusion of solvents. The Ortofon warranty will not be valid in cases where such treatment has caused malfunction. For cleaning the stylus, use a fiber brush a few times along the cantilever in the direction of the stylus, whenever you play a new record or change sides. Record care should also be performed regularly and is of paramount importance to prolong the life and condition of the stylus. Because of this, a record cleaning machine may be considered for ease and quality of record cleaning.

Ortofon exchange service

Owing to the design of the Ortofon moving coil cartridge, the stylus is not part of a replaceable assembly and therefore Ortofon offers an exchange service. If you should have the need for this service, please contact your local Ortofon authorized HiFi partner.

Warning

This phono cartridge is only for mounting on tonearms and must not be used for other purposes.